

Abstract

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Hypoxic tent system represents a portable travel version of Hypoxic Room System and is designated mostly for passive hypoxic training of athletes during rest. The system consists of a light portable tent which can be easily erected on a bed or mattress. The tent is supported by a supporting structure which can be disassembled in segments or deflated. Oxygen-depleted air is transmitted inside the tent by hypoxicator which employs membrane separation or pressure-swing adsorption principles for extracting oxygen from ambient air. Oxygen-depleted air is also filtered by HEPA filter and may be chilled by an optional air cooler.

Hypoxic tent system can be easily packed in a travel case and installed in any hotel room by attaching to a bed.

Hypoxic tent system provides a low-oxygen environment with preferably 11 to 15% oxygen and can also be used by disabled for exercising their cardiopulmonary systems, increasing strength, endurance and boosting immunity.